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TITLE: UNEVEN PATTERN DISCRIMINATING SENSOR

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**ABSTRACT:**

**PURPOSE:** To collate a fingerprint even when the surface of a light emitting body layer is slightly dirty by emitting light by means of the light emitting layer part which the projection of the fingerprint makes contact with, and displaying the fingerprint since a part where the voltage of the light emitting body layer of a sensor is applied emits the light.

**CONSTITUTION:** When the voltage is impressed on a transparent electrode 14 of a sensor 10 and a finger 1 is placed on the top face of a light emitting body layer 15, the voltage is impressed to a layer 15 between a projection 3a of the fingerprint of the finger 1 as one electrode and an electrode 14, and the part where the voltage is impressed emits the light. The emitted light passes through the electrode 14 and a transparent substrate 13, further passes through a lens 12, collide on a CCD sensor 11, and it is detected here. The detected fingerprint is collated with the fingerprint registered beforehand by a discriminator (not shown in a figure), and discriminated from it. When the finger 1 touches the layer 15 of the sensor 10, though a current flows through the finger 1, since the current is extremely weak, it is no problem. Further, when the finger 1 touches the layer 15, since the light is emitted, the strong push of the finger 1 is prevented.

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